

Name: \_\_\_\_\_

Class: \_\_\_\_\_

# Determining Concentration

1. “Crystal Light on the Go Packets” are 54 grams. They are to be added to a standard 500 ml bottle of water. What is the concentration of Crystal Light in the water?
2. A 375 ml can of Coke is said to have about 40 grams of sugar (the same as a chocolate bar). What is the concentration of sugar in the Coke?
3. Rachel and Caitlyn are having chocolate milk. Rachel has 400 ml of milk and adds 60 ml of chocolate sauce. Caitlyn has 250 ml and adds 40 ml of chocolate sauce. Whose chocolate milk is stronger?

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- Chloe is very particular about how she drinks her tea. She insists that it contain exactly 0.075 g of sugar and 0.1 ml of milk for every ml of tea. If Tanya prepares a tea for Chloe using 300 ml of tea, how much of each solute should she add?
- Bronze is a solution of Copper and Tin. A standard mixture is 88% Copper and 12% Tin.
  - Which is the solute and which is the solvent?
  - If the total mass of a piece of bronze is 600 g, how much of each substance is present?
  - What would be the concentration for the example in part b?